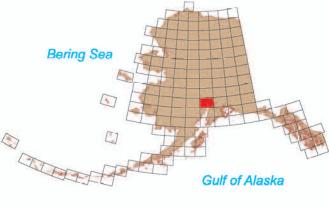


MAP OF POTENTIAL GEOLOGIC HAZARDS ALONG PROPOSED TRANSPORTATION CORRIDORS IN THE TYONEK QUADRANGLE, ALASKA: PART 2, ADDITIONAL HAZARDS

> compiled by R.D. Reger 2003



The State of Alaska makes no express or implied warranties (including warranties for merchantability and fitness) with respect to the character, functions, or capabilities of the or other damages suffered by the user or any other person or entity whether from use of the electronic products or services, any failure thereof or otherwise, and in no event will the State of Alaska's liability to the Requestor or anyone else exceed the fee paid for the electronic product or service.

MISCELLANEOUS PUBLICATION 117c

Reger (2003), sheet 2 of 2

DESCRIPTION OF MAP UNITS

DESCRIPTION OF MAP SYMBOLS

Definitely active fault - Clear evidence of movement

· Probably active fault - Evidence of probable movement during the past 10,000 years; solid where location is known, dashed where approximately

Possibly active fault - Evidence of movement during the past 500,000 years; solid where location is known, dashed where approximately located, dotted where

PERMAFROST

Perennially frozen ground is transitional from discontinuous to sporadic in this quadrangle.

MAP SOURCES

Dean, K.G., 1984a, Stream-icing zones in Alaska: Alaska Division of Geological & Geophysical

Detterman, R.L., Plafker, George, Hudson, Travis, Tysdal, R.G., and Pavoni, Nazario, 1974, Surface geology and Holocene Breaks along the Susitna segment of the Castle Mountain fault, Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF-618, scale 1:24,000, 1 sheet.

Detterman, R.L., Hudson, Travis, and Hoare, J.M., 1975, Bruin Bay fault inactive during the

Detterman, R.L., Hudson, Travis, Plafker, George, Tysdal, R.G., and Hoare, J.M., 1976,

Hackett, S.W., 1977, Gravity survey of Beluga Basin and adjacent area, Cook Inlet region, south-central Alaska: Alaska Division of Geological & Geophysical Surveys Geologic Report 49, 26 p., scale 1:500,000, 3 sheets.

Magoon, L.B., Adkison, W.L., and Egbert, R.M., 1976.
Map showing geology, wildcat wells, Tertiary plant fossil localities, K-Ar age dates, and petroleum operations, Cook Inlet area, Alaska: U.S. Geological Survey Miscellaneous Investigations Map I-1019, scale 1:250,000, 3 sheets.

Post, Austin, and Mayo, L.R., 1971, Glacier dammed lakes and outburst floods in Alaska: U.S. Geological Survey Hydrologic Investigations Atlas HA-455, 9 p., scale 1:1,000,000, 3 sheets

Reger, R.D., and Updike, R.G., 1983, Upper Cook Inlet and Matanuska Valley, in Péwé, T.L., and

Reger, R.D., eds., Guidebook to permafrost and Quaternary geology along the Richardson and Glenn Highways between Fairbanks and Anchorage, Alaska: Alaska Division of Geological & Geophysical Surveys Guidebook 1, p. 185-263, scale 1:250,000, 1 sheet.

Schmoll, H.R., Chleborad, A.F., Yehle, L.A., and Gardner, C.A., 1981, Reconnaissance engineering

geology of the Beluga coal resource area, southcentral Alaska, in Rao, P.D., and Wolff, E.N., eds., Focus on Alaska's coal '80: Fairbanks, University of Alaska Mineral Industries Research Laboratory Report 50, p. 92-110.

Sturm, Matthew, 1986, Formation of a strandline during the 1984 jokulhlaup of Strandline Lake: Arctic, v. 39, no. 3, p. 267-269.

Sturm, Matthew, and Benson, C.S., 1989, Jokulhlaups from Strandline Lake, Alaska, with special attention to the 1982 event: Alaska Division of Geological & Geophysical Surveys Report of Investigations 88-10, 19 p.

Reger, R.D., 1992 map interpretation.

Reconnaissance geologic map along Bruin Bay and Lake Clark faults in Kenai and Tyonek Quadrangles, Alaska: U.S. Geological Survey Open-file Report 76-477, 4 p., scale 1:250,000,

Holocene, in Yount, M.E., ed., United States

Geological Survey Alaska Program, 1975: U.S. Geological Survey Open-file Report 76-477, 4 p., scale 1:250,000, 1 sheet.

Surveys Report of Investigations 84-16, 20 p., scale 1:250,000, 102 sheets.

during the past 10,000 years; solid where location is known, dashed where approximately located, dotted

lakes upstream (jokulhlaups).

located, dotted where inferred.

where inferred.

Snow avalanches - Significant potential for snow avalanches based on the presence of steep



Location map for Tyonek Quadrangle